

## SECTION 15

## EXISTING FACILITIES

Existing facilities shall conform to Section 15 of the Caltrans Standard Specifications and these City Standard Specifications.

**15-1.01 Description.** - Facilities subject to the provisions of this section shall include any existing facilities which interfere with planned construction as identified in the project plans or special provisions. The removal of existing utilities required to permit orderly progress of work shall be accomplished by the utility company concerned, unless otherwise shown on the plans.

**15-2 MISCELLANEOUS HIGHWAY FACILITIES**

**15-2.02A Obliterating Roads and Detours.** - Traffic control devices, such as, but not restricted to, guidance, regulatory and warning signs and barricades used for the purpose of detouring traffic, shall be removed as directed by the Engineer.

**15-2.02B Traffic Stripes and Pavement Markings.** - Painting out traffic lines and markings with black traffic line paint will only be allowed, in rare instances, where the existing pavement will be resurfaced with asphalt concrete.

Temporary detour traffic stripes and pavement markings installed on permanent pavement surfaces outside the limits of the construction site shall be removed by sandblasting as directed by the Engineer.

**15-2.02E Drainage and Sewer Facilities.** - Existing manholes, catch basins, and other sewerage or drainage structures shown on the plans to be removed shall be removed completely, including foundation.

Existing sanitary or storm sewers, manholes, catch basins and other sewerage or drainage structures which have been or are to be abandoned, and which lie within a trench or other structure excavation, shall be removed from within the limits of required excavation necessary for the work.

Sanitary sewers, storm sewers, sewer laterals and other culverts to be abandoned, but not required to be removed, shall be thoroughly sealed at all open ends, and at the structures in which they terminate as applicable. The open ends shall be sealed with brick or concrete rubble, and mortar.

In addition to sealing open ends as specified above, and when specifically required, all sewer mains, upon abandonment shall be filled with a slurry sand/cement grout or blown sand. Facilities to be filled shall be sealed at the downstream end, filled with the approved mixture, and sealed at the upstream end.

The bottom of abandoned structures shall be perforated or broken to prevent the entrapment of water.

**15-2.02F Fences and Gates.** - All fence material and gates to be salvaged or relocated shall be removed with care to prevent any damage to the material. All adhering concrete footings shall be removed from fence posts and braces which are to be salvaged or relocated.

**15-2.02G Concrete Pavement.** - Asphalt or Portland cement concrete

pavements shall be removed to clean straight lines. If, in the opinion of the Engineer, the edges are ragged, raised or otherwise unsatisfactory, saw cutting will be required. Where concrete pavement adjoins a trench, the edges adjacent to the trench shall be trimmed to neat straight lines before resurfacing of the trench.

**15-2.05A Frames, Covers, Grates, and Manholes.** - Delete the 5th, 6th, 7th and 8th paragraph of Section 15-2.05A of the Caltrans Standard Specifications. Throat grade rings may be used to raise manhole frame castings to a maximum of 18 inches from top of cone to bottom of castings. If height is greater than 18 inches, for raising castings, then the cone shall be removed and manhole rebuilt accordingly.

When frames, covers, grates of existing manholes, inlets or other facilities are removed, a traffic rated plate shall be placed over the opening. The traffic plate shall be of a design that the possibility of dislodgement is non-existent. The required use of a traffic plate will be waived if the work of raising frames, covers or grates is accomplished the same day.

The Contractor shall exercise care in removing manhole covers and frames and install cover plates for manhole to preclude the possibility of any rubble or debris from entering the sewer pipe. Should any rubble or debris fall into the manhole, the manhole shall be immediately cleaned of any and all rubble and debris. At the discretion of the Engineer, the sewer main shall be flushed and cleaned downstream from the point of entry of any rubble and debris, in accordance with the provisions of Section 1308. The cost of flushing and cleaning of sewer mains as a result of rubble and debris entering into the mains shall be the sole responsibility of the Contractor and no additional compensation will be provided. Should the Contractor fail to flush and clean the sewer main, the Engineer shall order the work done by others and deduct the cost from any monies due the Contractor.

If the manhole cover is unstable under traffic, the manhole ring and cover shall be removed and replaced with a stable ring and cover.

**15-2.05F Sanitary Sewer Laterals.** - Sanitary sewer laterals encountered in the work that obstructs or otherwise interferes with other planned improvements shall be adjusted or relocated in accordance with appropriate provisions of these specifications.

**15-2.07 Payment.** - The cost of removal of detour traffic control devices shall be considered as included in the prices paid for the various contract items of work and no separate payment will be made therefor.

### 15-3 REMOVING CONCRETE

**15-3.02 Removal Methods.** - Concrete facilities shall be removed to neatly sawed edges with saw cuts made to a minimum depth of 1-1/2 inches. Concrete sidewalk or driveway aprons to be removed shall be neatly sawed in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk as required. No section of sidewalk or driveway apron to be replaced shall be smaller than score line to score line in either length or width or, as directed by the Engineer. Curb and gutter shall be sawed to a minimum depth of 1-1/2 inches on a neat line at right angles to the curb face. No section of curb and gutter to be replaced shall be smaller than five feet in length. If the saw cut in curb and

gutter falls within five feet of a construction joint or expansion joint, the concrete shall be removed to that joint.

Isolated concrete, where designated, shall be interpreted to mean: concrete facilities to be removed in areas outside the area that would normally be designated to be cleared, or such miscellaneous concrete facilities whose removal is required for those projects where cleaning, grubbing and removal of obstructions are included in other items of work.

The removal of subterranean facilities shall be as specified in Section 15-5.

### 15-5 SUBTERRANEAN FACILITIES

**15-5.01 Description.** - This work shall consist of removing and/or sealing and abandonment of existing subterranean facilities, including basements, septic tanks, cess pools, and wells. The type and general dimensions of such facilities to be removed, sealed, and/or abandoned will be shown on the project plans or described in the special provisions.

**15-5.02A Removal of Basements, Septic Tanks, and Cess Pools.** - When in the course of clearing, grubbing and removing of obstructions to the work, or, if designated on the plans or specified in the special provisions, basements, septic tanks or cess pools of any type, size or depth, are shown or encountered, they shall be removed in their entirety, with the following exception: cess pools 8 feet or greater in depth may be backfilled with approved materials and thoroughly jetted with water containing an approved wetting agent. The top of the cess pool shall be removed 2 feet below the grading plane or 3 feet below existing finished grade.

Floors of basements of any description shall be removed entirely to native soil. All rubble from basement removal shall be disposed of off the project.

All abandoned sewer laterals encountered shall be removed as described below:

- 1) Sewer laterals 2 feet or more below grading plane shall be sealed in accordance with the provisions of Section 15-2.02E, "Drainage and Sewer Facilities."
- 2) Sewer laterals in or above the grading plane shall be removed completely to a point where lateral is a minimum of 2 feet below grading plane and the ends of the lateral to remain shall be sealed as described above.

All area depressions resulting from removal of basements, septic tanks and cess pools shall be backfilled with approved native material and compacted to a relative density of not less than 90 percent.

Payment for basement, septic tank or cess pool removal and/or backfill shall be included in the price paid for clearing and grubbing, if such basement, septic tank or cess pool are shown on the plans or specified in the special provisions. If not shown on the plans or specified in the special provisions and encountered in the work, payment for basement, septic tank or cess pool removal and/or backfill will be paid for as extra work according to the provisions of Section 4-1.03D, "Extra Work."

**15-5.02B Sealing and Abandonment of Wells.** - The work of sealing and abandoning wells shall be in accordance with the "Standards for the Sealing of

Abandoned Wells Santa Clara County," adopted by Santa Clara Valley Water District, such provisions will be specified in the special provisions. Payment for sealing and abandoning of wells will be made per each well so sealed and abandoned as shown on the plans or specified in the special provisions. If not shown on the plans or specified in the special provisions and encountered in the work, payment for sealing and abandoning wells will be paid for as extra work according to the provisions of Section 4-1.03D, "Extra Work."

**15-5.03 Payment.** - Removal of subterranean facilities will be paid for at a lump sum price. The pay item will include removal of all such facilities encountered within the project boundaries in accordance with the provisions of these specifications except where otherwise specified. Where the Engineer's Estimate designates that payment will be made for the removal or abandonment of specific items on a unit basis, measurement will be made by the unit so designated.

Sealing and abandonment of wells will be paid for at the contract unit price per each.

The above prices paid shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved for the item or items as shown on the plans and as specified in these specifications, and as directed by the Engineer, including the disposal of all resulting material removed or encountered.

When the contract does not include a separate pay item for removal of subterranean facilities as specified above, and unless otherwise provided for in the special provisions, full compensation for any necessary removal of such facilities required to perform the construction operations specified shall be considered as included in the price bid for other items of work and no additional compensation will be allowed therefor.